

SM3H 5.4 Logarithmic Functions (Key-odds)

1. $(0, \infty)$

3. 1

5. True

7. $\log_a 1.6 = 2$

9. $\ln M = 2.2$

11. $a^6 = 3$

13. $e^4 = x$

15. -4

17. $\frac{1}{2}$

19. $(10, \infty)$

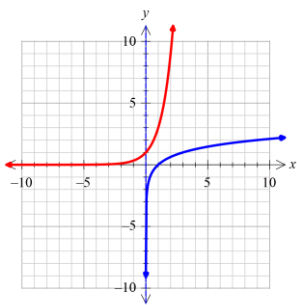
21. $(0,1) \cup (1,\infty)$

23. 2.303

25.

x	f(x)
-1	1/3
0	1
1	3

x	f ⁻¹ (x)
1/3	-1
1	0
3	1



27. a) $(-4, \infty)$ b) see graph c) Range: $(-\infty, \infty)$; $x = -4$ d) $f^{-1}(x) = e^x - 4$ e) Domain: $(-\infty, \infty)$ Range: $(-4, \infty)$

f) see graph

33. $x = 2$

35. $x = -1$

37. $x = \ln(5/4) - 1$

